

**APS CROSS-CUT REVIEW:
SCIENCE REQUIRING THE PULSED STRUCTURE OF THE APS X-RAY BEAM**

Wednesday, January 26, 2005

Building 402 Auditorium
Advanced Photon Source, Argonne National Laboratory

http://www.aps.anl.gov/News/Meetings/APS_Cross_Cut_Reviews/index.html

James Norris, Chair

- 8:00 a.m.** **Welcome and Charge to the Review Committee** – *J. Murray Gibson*
- 8:15** **Overview of Current Capabilities** – *J. Murray Gibson*
- 9:00** **Photoreceptors, Oxygen and Redox Sensors, and Protein Dynamics** – *J. Keith Moffat*
- 9:25** **The APS Time Structure and its Impact on Nuclear Resonant Spectroscopy** –
E.Ercan Alp
- 9:50** Break
- 10:05** **Ultrafast Laser-Matter Interactions** – *David Reis*
- 10:30** **X-raying Atoms and Molecules in Strong Optical Fields** – *Linda Young*
- 10:55** **Probing Transient Molecular Structures in Photochemical Processes using Pulsed X-rays from the APS** – *Lin Chen*
- 11:20** **Applications of the High-efficiency Time-resolved XAFS Facility at PNC-CAT** –
Steve Heald
- 11:45** **What's Ahead?** – *Michael Borland*
- 12:30 p.m.** Adjourn